

Oscillator Specification

Part No. + Packaging: LFTCX0063713REEL

■ Temperature compensated crystal oscillator (TCXO)

Model IQXT-200-2-B

■ Model Issue number 1

Frequency Parameters

Frequency 10.0MHz ■ Frequency Tolerance @ 25°C ±0.50ppm ■ Frequency Stability ±0.28ppm Operating Temperature Range

-20.00 to 70.00°C

±0.02ppm max per day, ±1ppm

max per year

 Supply Voltage Variation (measurement referenced to frequency observed with TA=25°C, Vs varied from 3.13V to 3.47V and $load=10k\Omega//10pF$): $\pm 0.1ppm$ max

■ Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V and load=10k Ω //10pF): ±0.1ppm max

■ Frequency Stability: TA varied from -20°C to 70°C, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, load=10k Ω //10pF and temperature variable speed less than 2°C per

■ Short Term Stability (@ 25°C after 10mins power on): 5E-10/s typ @

Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V and within 30 days after ex-works):

■ Ageing: TA=25°C, Vs=3.3V and after 1hr of operation.

Electrical Parameters

Supply Voltage 3.30V Supply Voltage Tolerance +5%

Current Draw 10.00mA max Current: TA=25°C, Vs=3.3V and load=10kΩ//10pF

Output Details

 Output Compatability Clipped Sine Output Load 10kΩ//10pF

Output Level: 0.8V pk-pk min

Noise Parameters

■ Phase Noise (@ 10MHz typ):

-90dBc/Hz @ 10Hz

-115dBc/Hz @ 100Hz

-135dBc/Hz @ 1kHz

-145dBc/Hz @ 10kHz

-148dBc/Hz @ 100kHz

-150dBc/Hz @ 1MHz

Environmental Parameters

Shock: IEC 60068-2-27, Test Ea: 100G acceleration for 6ms, sinewave, in 3 mutually perpendicular planes

Vibration: IEC 60068-2-6, Test Fc: 10Hz-2000Hz, 0.75mm amplitude, 10G acceleration, 30mins per cycle, in 3 mutually perpendicular planes, test duration 2hrs

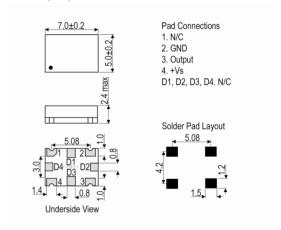
Storage Temperature Range: -55 to 105°C

FSD Level:

HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010 Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010



Outline (mm)



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Manufacturing Details

■ Moisture Sensitivity Level: 2

■ Maximum Reflow Temperature: 260°C (30secs max)

Compliance

RoHS Status CompliantREACh Status Compliant

Packaging

■ Pack Type: Reel Tape & reel in accordance with

EIA-481-D

Pack Size 600

Alternative packing option available
This document is correct at the time of printing; please contact your local office for the latest version.

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